JC06 REC DECT/PTO 04 NOV 2005

Approved for use through 07/31/2005. ONB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
the Pacerwork Reduction Act of 1995, no persons are moniment to respond to a conferior and information unless of contribies a visit Only of the Commence of

_	Officer dig 1 apartic	en i ivoo	COCHTAC CHICAGO, NO PERSONS E	io required to respond to to a conscion to	A EBORTHADOT CHECKS II CONTRAINS IN YEAR O'MID CONDUCTION IN	
Substitute	e for form 1449A/PTC)		Complete if Known		
				Application Number	PCT/US2004/13735	
			CLOSURE	Filing Date	April 24, 2004	
STA	TEMENT B	y a	PPLICANT	First Named Inventor	Koslov	
				Art Unit		
	(Use as many she	ets as	necessary)	Examiner Name		
Sheet	1	of	2	Attorney Docket Number	PU030141	

			U.S. PATENT I	DOCUMENTS		
Examiner Initials	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan	
	No.1	Number - Kind Code ² (if known)			Passages or Relevant Figures Appear	
/AF/		US-5657354A	8-12-97	Thesling		
		US- 5983174A	11/9/99	Wong et al.		
		US- 5448555	9/5/95	Bremer et al.		
VIZ		US- 5966412	10/12/99	Ramaswamy		
V		US- 5646935	7/8/97	Ishikawa et al.		
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-		1		
	1	US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

		FOREIGN PA	TENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document		
/AF/		COPY OF SEARCH REPORT				
/AF/		WO 01/39453 A1				
		*				
		ļ				
	<u> </u>					

Examiner Signature	/Aristocratis Fotakis/	Date Considered	09/14/2010

"EXAMINER: Italial if reference considered, whether or not clasion is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered, include copy of this form with near communication to applicant." Applicant's unique citation designation number (optional): "See Kinds Codes of WPP District Comments at <u>investigation or MPPP 901.0.5</u>. Either Official Network is sead the document, by the two-letter code (VPPC Stantard ST.3)." For the properties of properties of properties at the properties of pro

This collection of information is required by 3T CFR 1,87 and 1.98. The information is required to obtain or retain a benefit by the public which is to like (earl by the USPTO be process) an application. Confederability is governed by \$S U.S.C. 129 and 37 CFR 1.14. This collection is estimated to lake 2 hours to complete, including agilthering, preparing, and submitting the completed agricultant from to the USPTO. Time will vary deporting upon the individual case, recomments on the amount of time, you require to complete less from anotive suggesterned for enducing this burden, should be sent to the Chell formation. Questions for the contraction of the contraction of the contraction of time of the contraction of the contractio

19/555617 JCCS RSC'C FCT/PTO 04 NOV 2005

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO						Complete if Known			
			ON D	001 001105	Application Number	PCT/US2004/13735			
				SCLOSURE	Filing Date	April 24, 2004			
	STA	TEMEN	TBY	APPLICANT	First Named Inventor	Koslov			
					Art Unit				
		(Use es me	ny sheets e	s necessery)	Examiner Name				
_	Sheet	2	of	2	Attorney Docket Number	PU030141			

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, dy and/or country where published.	Τ²		
/AF/		TARICCO G. ET. Al. "Some simple codes-involution schemes for unequal error protection in satisfies communications" SPIEAD SPECTIMAN TECHNICIDES AND APPLICATIONS PROJECTIONS, 1969, IEEE 4TH INTERNATIONAL SYMPOSIMM ON MAINZ, GEFMANY 22-25 Sept. 1969. New York, INY USA IEEE US 22 Sept. 1998 (pages 128): 1294, VOPIOGRADES (SIGN. 07-303-3597-8 Sections) and II Figure 1.			
		DIVSALAR D. E T AL.: "Multiple turbo does" MILITARY COMMUNICATIONS CONFERENCE, 1995, MILCOM"95 CONFERENCE REOCOND IEEE SAN DIEGO, CA USA Nov.5-8, 1995 New York, NY USA IEEE US 1 1/5/95 pages 279-285 XPO10153973 ISBN: 0-7800-2489-7 page 283 leit-hard column, paragraph 1, section 1X			
		CALDERBANK, A.R. "Multilevel codes and multistage dedcoding" IEEE TRANSACTIONS ON COMMUNICATIONS, VOL. 37, NO. 3, March 1989 pages 222-229 XP002304039 Section III-A			
		KANNAN RAMCHANDDRAN: "MULTIRESCUTION BROADCAST FOR DIGITAL HDTV USING JOINT SOURCE/CHANNEL CODING" IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE INC. NEW YORK, US vol. 11, no. 1, 1993 pages 5222 XP00037998 ISSN: 0733-9176 Figure 8)			
		LIM J-H ET AL: "Labeling and decoding schemes for backward-compatible hierarchical coded modulation" 2000 IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE. CONFERENCE RECORD, VOL 1, 923/2000 PAGES 123-128, XP010532479 page 123, right-hand column, paragraph 2 ligure 3a			
		SCHILPP M ET AL. "Multilevel codes for digital HDTV" COUMMUNICATION TECHNOLOGY PROCEEDINGS. 1998 ICCT" 96 INTERNATIONAL CONFERENCE ON BEUING, CHINA May 5-7, 1996 New York, NY USA IEEE, US May 5, 1996 pages 771-776, XP010532925 ISBN: 0-7803-2916-3 figure 1b page 773, left-hand column, last paragraph sections In.4, II-8			
		SCHRAMM P: "Multilevel coding with independent decoding on levels for efficient communication on static and interfeaved facing channels' PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 1997, WAVES OF THE YEAR 2000. PIRIC '97. The 8th IEEE INTERNATIONAL SYMPOSIUM ON HELSINIKI, FINLAND Sept. 14, 1997 New York, NY USA, IEEE, US 9/186 80ps; 1196-1200 XPD10247836 ISBN 0-780-38171-5 figure 4			
		PAPKE LET AL. "Different literative decoding algorithms for combined concatenated coding and multiresolution modulation" COMMUNICATIONS, 1994. ICO 98 QUEENCOMMICO '94 OVERFERCHE RECORD, SERVINE HUMANITY THROUGH COMMUNICATIONS. 'IEEE INTERNATIONAL CONFERENCE ON NEW ORLEANS, LA USA May 1-5, 1994, NEW YORK, NY USA IEEE May 1, 1994 pages 1245-1254 XP010126691 ISBN: 0-7803- 18259-986103.			

Signature	77 triotoorano i otamor	Considered	09/14/2010
*EXAMINER: Ini	tial if reference considered, whether or not citation i	s in conformance with MPEP 6	iog. Drawline through citation if not in conformance

/Aristocratis Fotakis/

Date

Examiner

"EXAMINET: Initial if reference considered, whether or not cliation is in conformance with MPEP 609. Draw line through clation in not in conformance and not considered. Include copy of this form with next communication to applica can bed, man kern ell English language Translation is attached." Applican's unique cliation to designation number (optional). "Applicant's to place a check mark here it English language Translation is attached." Applicant's unique cliation to designation number of your CPT 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is generated by 35 U.S.C. 1.22 and 37 CPT 1.14. This collection is estimated to take 120 minutes to complete, inactioning gashering, president, and submitted in the complete application from the full yEPTO. Time will vary depending upon the individual cause. Any control improvement of the process of the p FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.